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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	
09/765,263	01/18/2001		ATTORNET DOCKET NO.	CONFIRMATION NO.
03//03,203	01/18/2001	William H. Zebuhr	105019-0007	6146
24267	7590 12/05/2002			
CESARI AI	ND MCKENNA, LLP			
88 BLACK FALCON AVENUE			EXAMINER	
BOSTON, M			MANOHARAN, VIRGINIA	
			ART UNIT	PAPER NUMBER
			1764	
			DATE MAILED: 12/05/2002	12

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)
		09/765,263	ZEBUHR, WILLIAM H.
	Office Action Summary	Examiner	Art Unit
	•	Virginia Manoharan	1764
	The MAILING DATE of this communication		
	or Reply		
THE - External control	ORTENED STATUTORY PERIOD FOR RE MAILING DATE OF THIS COMMUNICATIO insions of time may be available under the provisions of 37 CFF SIX (6) MONTHS from the mailing date of this communication a period for reply specified above is less than thirty (30) days, a period for reply is specified above, the maximum statutory per ure to reply within the set or extended period for reply will, by state to reply within the set or extended period for reply will, by state to reply within the set or extended period for reply will, by state to reply will, and the mailing the mail of	N. R. 1.136(a). In no event, however, may a recept within the statutory minimum of thirt iod will apply and will expire SIX (6) MON atute, cause the application to become AR	eply be timely filed y (30) days will be considered timely. THS from the mailing date of this communication.
1)⊠	Responsive to communication(s) filed on g	09 August 2002 .	
2a)⊠	This action is FINAL . 2b)	This action is non-final.	
3)	Since this application is in condition for all	owance except for formal mat	ters, prosecution as to the merits is
Disposit	closed in accordance with the practice und ion of Claims	ler <i>Ex parte Quayle</i> , 1935 C.[D. 11, 453 O.G. 213.
4)⊠	Claim(s) 1-38 is/are pending in the applica	tion.	
	4a) Of the above claim(s) 30-37 is/are withd		
5)	Claim(s) is/are allowed.		·
_	Claim(s) 1-5,10-12,17-20,24,25 and 38 is/a	re rejected.	
7)🛛	Claim(s) 6-9,13-16,21-23 and 26-29 is/are of	objected to.	
	Claim(s) are subject to restriction and on Papers	d/or election requirement.	
9)[The specification is objected to by the Exami	iner.	
10) 🗌	The drawing(s) filed on is/are: a)□ ac	cepted or b) objected to by th	ne Examiner.
	Applicant may not request that any objection to		
11) 🗌 -	The proposed drawing correction filed on	is: a)□ approved b)□ di	sapproved by the Examiner.
	If approved, corrected drawings are required in	• •	
	The oath or declaration is objected to by the	Examiner.	
	nder 35 U.S.C. §§ 119 and 120		
_	Acknowledgment is made of a claim for fore	ign priority under 35 U.S.C. §	119(a)-(d) or (f).
a)[☐ All b)☐ Some * c)☐ None of:		
	1. Certified copies of the priority docume		
	2. Certified copies of the priority docume		
	 Copies of the certified copies of the pi application from the International I ee the attached detailed Office action for a li 	Bureau (PCT Rule 17,2(a)).	_
_	cknowledgment is made of a claim for dome		
a)	☐ The translation of the foreign language packnowledgment is made of a claim for dome	provisional application has be	en received.
ttachment			
) 🔲 Notice	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) aation Disclosure Statement(s) (PTO-1449) Paper No(s)	5) Notice of In	ummary (PTO-413) Paper No(s) formal Patent Application (PTO-152) .
Patent and Tra O-326 (Rev	demark Office	Action Summary	

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The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-5, 10-12, 17-20, 24-25 and 38 are rejected under 35 U.S.C. 103(a) as being unpatentable over GB '085, Hickman, Shafranovsky et al or Ramshaw et al.

The above references are applied for the same reasons as set forth at pages 4-5 of the previous office action.

Claims 6-9, 13-16, 21-23 and 26-29 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Applicant's arguments filed Aug. 9, 2002 have been fully considered but they are not persuasive.

Applicant's following arguments such as:

"... True, an apparatus claims that includes a functional limitation can be found to be anticipated by a reference that, although it does not describe the function claimed, does describe an apparatus that inherently performs that function. But no such case is presented by cited references, namely, British Patent Specification No. 757,085 and U.S. Patents Nos. 2,894,879 to Hickman, 4,198,360 to Shafranovsky et al., and 4,283,255 to Ramshaw et al.....Nor has Applicant found in any of those references a basis for contending that the rate of irrigation of any irrigation system there described repeatedly reaches, as the claims require, a peak irrigation rate

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that is at least twice its average irrigation rate ..." are not persuasive of patentability for the following reasons.

Contrary to applicant's assertions, the metering valve (180) associated with nozzles (182) for example, of Hickman at col. 6, lines 62-68 and the sprinkling device referred to at col. 6, lines 46-54 of Shafranovsky et al and further the pumps the British reference would all be at least suggestives of the variability of the irrigation system used in the prior art. A person of ordinary skill in the art would recognize that the flow of a distilland through a nozzle or sprayer, not merely an aperture or a hole, is naturally regulated, adjusted or controlled when operated in conjunction with a metering valve or pump. Of course, the variations of flow e.g., spray flow rate, spray pattern and etc., depend on various considerations e.g., on desired production rate and efficiency of separation, on orifice diameter, flow velocity, geometry and flow condition of the spray nozzle or irrigating system, and etc.

Applicant fails to delineate how the means, nozzles or sprayer of the prior art differs from the claimed invention in the structural sense.

There are even no means recited nor provided in the claims nor in the specification used for varying, monitoring, regulating or controlling the peak rate, or the average rate such that the argued "... a varying-rate irrigation system whose rate for each evaporation chamber so varies as to have a peak at least twice its average" is measured.

The prior art sprayer or nozzles are deemed to be a variable system whose flow are subject to change as the pumping rate change or as is monitored by metering valves. Thus, the apparatus of the prior art is obviously capable of performing the argued function i.e., achieve "... a peak irrigation rate that is at least twice its average irrigation rate".

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

- a. Miller disclose an apparatus involving pumping at controlled rates by suitable pumps.
- b. Wreszinski discloses that the relative concentrations in the various stages are deliberately controlled by regulating the pumping rates of the pumps.
- c. Jannone discloses a spray device capable of changing the rate dispersed over a wide range of dispersion rates.
- d. Proctor discloses a sprayer equipped with a metering device for variably controlling the ratio of the fluids being mixed.
 - e. Hetrick et al discloses the strategy for varying the spray pattern.
- f. Assaf et al discloses controlling as the size of the droplets as a function of the horizontal velocity component.

Thus, in the absence of anything which may be "new" or "unexpected result", a prima facie case of obviousness is deemed to be reasonably established by the art and has not been rebutted.

Unexpected results must be established by factual evidence. Mere arguments or conclusory statements in the specification, applicant's amendments, or the Brief do not suffice.

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In re Lindner, 457 F.2d 506, 508, 173 USPQ 356m 358 (CCPA 1972), In re Wood, 582, F.2d 638, 642, 199 USPQ 137, 140 (CCPA 1978).

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

This application contains claims 30-37 drawn to an invention nonelected with traverse in Paper No. 6. A complete reply to the final rejection must include cancellation of nonelected claims or other appropriate action (37 CFR 1.144) See MPEP § 821.01.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Virginia Manoharan whose telephone number is 703-308-3844. The examiner can normally be reached on Tuesday-Friday from 7:30 am to 6:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Glenn Caldarola can be reached on 703-308-4311. The fax phone numbers for the organization where this application or proceeding is assigned are 703-872-9310 for regular communications and 703-872-9462 for After Final communications.

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Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-0661.

V. Manoharan/mn December 4, 2002

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